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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/517,657	12/13/2004	Enzo Di Fabrizio	Q85169	1372	
23373	7590 06/15/2007		EXAMINER		
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			STAFIRA, MICHAEL PATRICK		
SUITE 800 WASHINGTO	N. DC 20037		ART UNIT PAPER NUMBER		
W1.6111.1.01.0	,		2886		
			MAIL DATE	DELIVERY MODE	
			06/15/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)	
Office Action Summers		10/517,657	DI FABRIZIO ET AL.	
On	ice Action Summary	Examiner	Art Unit	
		Michael P. Stafira	2886	
The M Period for Reply	IAILING DATE of this communication ap	pears on the cover sheet w	ith the correspondence address	
WHICHEVEF - Extensions of til after SIX (6) MC - If NO period for - Failure to reply Any reply receiv	IED STATUTORY PERIOD FOR REPL R IS LONGER, FROM THE MAILING D me may be available under the provisions of 37 CFR 1. DNTHS from the mailing date of this communication. reply is specified above, the maximum statutory period within the set or extended period for reply will, by statut yed by the Office later than three months after the mailing erm adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MON e. cause the application to become Af	CATION. reply be timely filed  ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status				
1)⊠ Respor	nsive to communication(s) filed on <u>Elec</u>	ction made 4/16/2007.		
2a)∏ This ac	tion is <b>FINAL</b> . 2b)⊠ Thi	s action is non-final.		
	his application is in condition for allowa			s
closed	in accordance with the practice under	Ex parte Quayle, 1935 C.D	). 11, 453 O.G. 213.	
Disposition of C	laims			
4)⊠ Claim(s	s) <u>1-15</u> is/are pending in the application	1.		
	he above claim(s) <u>10-13</u> is/are withdra			
	s) is/are allowed.			
6)⊠ Claim(s	s) <u>1,2,4,14 and 15</u> is/are rejected.			
7)⊠ Claim(s	s) <u>3 and 5-9</u> is/are objected to.			
8) Claim(s	s) are subject to restriction and/o	or election requirement.		
Application Pap	ers .	•		
9)□ The spe	cification is objected to by the Examine	ar .		
	wing(s) filed on <u>13 December 2004</u> is/a		objected to by the Examiner	
	nt may not request that any objection to the			
	ment drawing sheet(s) including the correc			d).
	h or declaration is objected to by the E	_	•	
Priority under 35	5 U.S.C. § 119			
	ledgment is made of a claim for foreigr b)  Some * c)  None of:	n priority under 35 U.S.C. §	119(a)-(d) or (f).	•
1. 🛛 C	Certified copies of the priority document	ts have been received.		
2. 🗌 C	Certified copies of the priority document	ts have been received in A	pplication No	
3.	copies of the certified copies of the prio	rity documents have been	received in this National Stage	
	pplication from the International Burea	, ,,,		
* See the a	attached detailed Office action for a list	of the certified copies not	received.	
Attachment(s)	·			
	ences Cited (PTO-892)		ummary (PTO-413)	
	person's Patent Drawing Review (PTO-948) closure Statement(s) (PTO/SB/08)		)/Mail Date formal Patent Application	
	nil Date <u>12/13/2004</u> .	6) 🔲 Other:		

#### **DETAILED ACTION**

## **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### Election/Restrictions

2. Claims 10-13 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Group II, there being no allowable generic or linking claim.

Election was made without traverse in the reply filed on 4/16/2007.

## Claim Rejections - 35 USC § 103

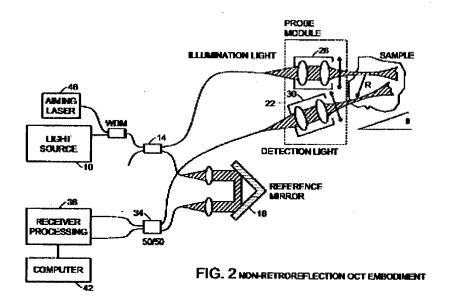
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 14, 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jensen et al. ('067) in view of Boppart et al. ('413).

### Claim 1

Jensen et al. ('067) substantially teaches the claimed invention except that it does not show a light-emitting means for generating a collimated light beam. Boppart et al. ('413) shows that it is known to provide a light-emitting means that generates a collimated light beam (Fig. 2,

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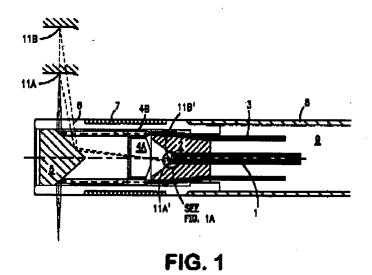
Ref. 10, 26) for an optical scanning probe. It would have been obvious to combine the device of Jensen et al. ('067) with the collimated light beam of Boppart et al. ('413) for the purpose of providing a light beam that has little loss of the optical signal, therefore increasing the sensitivity of the measurement.



Jensen et al. ('067) discloses an elongate probe element (Fig. 1, Ref. 8) suitable for being introduced into the duct and for guiding the collimated beam along a predetermined propagation direction (Col. 3, lines 52-56), reflector means (Fig. 1, Ref. 5) supported by the probe element (Fig. 1, Ref. 8) and suitable for deflecting the light beam so as to illuminate the internal wall of the duct (Col. 3, lines 52-56), and for deflecting the reflected or diffused light coming from an illuminated point (Fig. 1, Ref. 11A, 11B) of the internal wall so as to guide it along the probe element (Fig. 1, Ref. 8), and detection means (Col. 7, lines 1-10) suitable for receiving an image of the illuminated point (Fig. 1, Ref. 11A, 11B), which image is correlated with the optical distance of the point from the detection means (Col. 7, lines 1-10), and for providing a

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corresponding electrical signal, characterized in that the reflector means comprise a micro-mirror element (Fig. 1, Ref. 5) articulated to a distal end of the probe element (See Fig. 2), the micro-mirror element (Fig. 1, Ref. 5) being orientable so as to deflect the light beam in selectively different directions (Col. 9, lines 1-10).



5. Claim 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jensen et al. ('067) in view of Boppart et al. ('413) as applied to claim 1 above, and further in view of Deichmann et al. (2003/0164952).

### Claim 2

Jensen et al. ('067) in view of Boppart et al. ('413) substantially teaches the claimed invention except that it does not show a drive unit for moving the probe and unit. Deichmann et al. (2003/0164952) shows that it is known to provide a drive unit for moving the probe unit (Para. 0062) for an optical scanning probe. It would have been obvious to combine the device of Jensen et al. ('067) in view of Boppart et al. ('413) with the probe drive unit of Deichmann et al.

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(2003/0164952) for the purpose of providing the probe unit the ability to move into restricted areas, therefore providing reliable images of confined areas.

6. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jensen et al. ('067) in view of Boppart et al. ('413).

# Claim 4

Jensen et al. ('067) discloses a probe arm element (Fig. 1, Ref. 8) suitable for being introduced into the duct and supporting at its distal end a micro-mirror element (Fig. 1, Ref. 5) which can deflect a light beam directed along the probe element (Fig. 1, Ref. 8) so as to illuminate the internal wall of the duct, and which can deflect the reflected or diffused light coming from an illuminated point of the internal wall so as to guide it once more along the probe element Fig. 1, Ref. 8) to enable it to be received by detection means (Col. 7, lines 1-10) of the apparatus, characterized in that the micro-mirror (Fig. 1, Ref. 5) element is articulated to the probe arm element (Fig. 1, Ref. 8) so as to be orientable in a radial plane relative to the probe arm element (Fig. 1, Ref. 80(Col. 9, lines 1-10).

Jensen et al. ('067) substantially teaches the claimed invention except that it does not show generating a collimated light beam. Boppart et al. ('413) shows that it is known to provide a collimated light beam (Fig. 2, Ref. 10, 26) for an optical scanning probe. It would have been obvious to combine the device of Jensen et al. ('067) with the collimated light beam of Boppart et al. ('413) for the purpose of providing a light beam that has little loss of the optical signal, therefore increasing the sensitivity of the measurement.

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Claim 14

Jensen et al. ('067) discloses determining the internal impression of the auditory canal

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(Col. 3-4, lines 52-15).

Claim 15

Jensen et al. ('067) further discloses determination of an internal impression of the

auditory canal by means of an apparatus in a manner such as to produce a three-dimensional

computer representation, and machine production of a piece of hearing prosthesis, under the

control of a computer using the data relating to the three-dimensional representation (Col. 1,

lines 8-22.

Allowable Subject Matter

7. Claims 3, 5-9 are objected to as being dependent upon a rejected base claim, but would

be allowable if rewritten in independent form including all of the limitations of the base claim

and any intervening claims.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael P. Stafira whose telephone number is 571-272-2430.

The examiner can normally be reached on 4/10 Schedule Mon.-Thurs..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tarifur Chowdhury can be reached on 571-272-2800 ext. 77. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner
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June 8, 2007